VICINIT

SITE INFO

ADDRESS:

OWNER:

4100 CARILLON POINT KIRKLAND, WA 98033

CARILLON PROPERTIES W BLVD 3N0634

PARCEL/TAX #

1725059058

LEGAL:

POR GL 1 & 2 & BLKS F & G OF THE 2ND SUPL PLAT OF LK WN SH LDS TGW 2ND CL SHLDS ADJ ALL LY WLY OF W MGN LK WN BLVD-LESS POR N OF S LN OF N 1076.80 FT SD GL 1 & ITS WLY PROD - LESS POR THOF S OF LN BEG AT NXN 1902.66 FT S & PLW N LN GL 1 & W MGN LK WN BLVD TH S 03-09-13 E ALG W MGN 75 FT TO TPOB OF DESC LN TH N 88-35-53 W TO INNER HARBOR LN & TERMINUS THIS LN - LESS POR CONV BY REC 8907281497 AKA LOT B KK ALT LL #LL-91-50 REC 9104302101



KEY PLAN SCALE

AREA OF WORK

2009 WASHINGTON STATE ENERGY CODE NOTES

1411.1: EQUIPMENT SHALL HAVE A MINIMUM PERFORMANCE AT THE SPECIFIED RATING CONDITIONS NOT LESS THAN THE VALUES SHOWN IN TABLES 14-1A THROUGH 14-1G.

1411.4: PACKAGED ELECTRICAL EQUIPMENT PROVIDING BOTH HEATING AND COOLING WITH A TOTAL COOLING CAPACITY GREATER THAN 20,000 BTU/H SHALL BE A HEAT PUMP.

1412.1: EACH SYSTEM SHALL BE PROVIDED WITH AT LEAST ONE TEMPERATURE CONTROL DEVICE. EACH ZONE SHALL BE CONTROLLED BY INDIVIDUAL THERMOSTATIC CONTROL RESPONDING TO TEMPERATURE WITHIN THE ZONE. AT A MINIMUM, EACH FLOOR OF A BUILDING SHALL BE CONSIDERED AS A SEPARATE ZONE.

1412.4: HVAC SYSTEMS SHALL BE EQUIPPED WITH AUTOMATIC CONTROLS CAPABLE OF ACCOMPLISHING A REDUCTION IN OF ENERGY USE THROUGH CONTROL SETBACK OR EQUIPMENT SHUTDOWN DURING PERIODS OF NON-USE OR ALTERNATE USE OF THE SPACES SERVED BY THE SYSTEM.

1412.4.1: OUTSIDE AIR INTAKES, EXHAUST OUTLETS AND RELIEF OUTLETS SERVING CONDITIONED SPACES SHALL BE EQUIPPED WITH MOTORIZED DAMPERS WHICH CLOSE AUTOMATTICALLY WHEN THE SYSTEM IS OFF OR UPON POWER FAILURE. STAIR SHAFT AND ELEVATOR SHAFT SMOKE RELIEF DAMPERS SHALL REMAIN CLOSED UNTIL ACTIVATED BY SMOKE DETECTION SYSTEM.

DAMPERS INSTALLED TO COMPLY WITH THIS SECTION, INCLUDING DAMPER INTEGRAL TO HVAC EQUIPMENT, SHALL HAVE A MAXIMUM LEAKAGE REATE WHEN TESTED IN ACCORDANCE WITH AMCA STANDARD 500 OF:

MOTORIZED DAMPERS: 10 CFM/SQ. FT. OF DAMPER AREA AT 1.0 IN. W.G.

NONMOTORIZED DAMPERS: 20 CFM/ SQ. FT. OF DAMPER AREA AT 1.0 INCH W.G., EXCEPT THAT FOR NONMOTORIZED DAMPER SMALLER THAN 24 INCHES IN EITHER DIMENSION: 40 CFM/ SQ.FT. OF DAMPER AREA AT 1.0 INCH W.G.

1412.4.1.1: DAMPERS FOR OUTDOOR AIR SUPPLY AND EXHAUST SHALL AUTOMATICALLY SHUT WHEN THE SYSTEM IS NOT IN USE OR DURING BUILDING WARM-UP COOLDOWN AND SETBACK.

1412.5: UNITARY AIR COOLED HEAT PUMPS SHALL INCLUDE MICROPROCESSOR CONTROLS THAT MINIMIZE SUPPLEMENTAL HEAT USAGE DURING START-UP, SET-UP AND DEFROST CONDITIONS.

1412.7: EACH AIR SUPPLY OUTLET OR AIR OR WATER TERMINAL DEVICE SHALL HAVE MEANS FOR BALANCING, INCLUDING BUT NOT LIMITED TO, DAMPERS, TEMPERATURE AND PRESSURE TEST CONNECTIONS AND BALANCING VALVES.

1413.1: AIR ECONOMIZERS SHALL BE CAPABLE OF AUTOMATICALLY MODULATING OUTSIDE AND RETURN AIR DAMPERS TO PROVIDE 100% OF THE DESIGN SUPPLY AIR AS OUTSIDE AIR TO REDUCE OR ELIMINATE THE NEED FOR MECHANICAL COOLING.

1413.3: AIR AND WATER ECONOMIZERS SHALL BE CAPABLE OF PROVIDING PARTIAL COOLING EVEN WHEN ADDITIONAL MECHANICAL COOLING IS REQUIRED TO MEET THE COOLING LOAD.

1414.1: DUCTWORK (OTHER THAN ROUND OR FLAT OVAL) WHICH IS DESIGNED TO OPERATE AT PRESSURES ABOVE 1/2" WATER COLUMN STATIC PRESSURE SHALL BE SEALED.

1414.1.2: ALL LOW PRESSURE DUCT SYSTEMS SHALL BE SEALED TO A LEAKAGE RATE NOT TO EXCEED 6% OF THE FAN FLOW IF THE DUCT SYSTEM HAS MORE THAN 25% DUCT SURFACE AREA LOCATED IN ANY UNCONDITIONED SPACE. THE LEAKAGE RATE SHALL BE CONFIRMED THROUGH FIELD VERIFICATION AND DIAGNOSTIC TESTING, IN ACCORDANCE WITH SMACNA DUCT LEAKAGE TEST PROCEDURES - 1985.

1414.1.3: DUCT WORK DESIGNED TO OPERATE IN EXCESS OF 3" WATER COLUMN SHALL BE LEAK TESTED IN ACCORDANCE WITH SMACNA DUCT LEAKAGE TEST PROCEDURES -

1414.2: INSULATION OF SUPPLY, RETURN AND OUTSIDE AIR DUCTWORK SHALL MEET THE REQUIREMENTS OF CHAPTER 13, DAMPERS SHALL COMPLY WITH SECTION 1412.4.1 BE INSULATED IN ACCORDANCE WITH TABLE 14-5.

1416.2.1: BUILDINGS WHICH REQUIRE A COMMISSIONING PROCESS IN ACCORDANCE WITH WSEC SECTION 1416 AND SHALL INCLUDE:

- 1. COMMISSIONING PLAN
- 2. SYSTEMS TESTING AND BALANCING
- 3. HVAC EQUIPMENT AND CONTROLS FUNCTIONAL TESTING
- 4. SUPPORTING DOCUMENTATION IN THE FORM OF OPERATION AND MAINTENANCE AND RECORD DOCUMENTS
- 5. COMMISSIONING REPORT.

1416.3.3: ALL HVAC SYSTEMS, EQUIPMENT AND CONTROLS SHALL BE TESTED TO ENSURE THAT CONTROL DEVICES, COMPONENTS, EQUIPMENT AND SYSTEMS ARE CALIBRATED, ADJUSTED AND OPERATE IN ACCORDANCE WITH SEQUENCES OF OPERATION PRESCRIBED IN THE CONSTRUCTION DOCUMENTS. WRITTEN PROCEDURES WHICH CLEARLY DESCRIBE THE INDIVIDUAL SYSTEMATIC TEST PROCEDURES, THE EXPECTED SYSTEMS' RESPONSE OR ACCEPTANCE CRITERIA FOR EACH PROCEDURE, THE ACTUAL RESPONSE OR FINDINGS, AND ANY PERTINENT DISCUSSION

1416.3.4.2: TRAINING OF THE MAINTENANCE STAFF FOR EACH EQUIPMENT TYPE AND/OR SYSTEM SHALL INCLUDE AS A MINIMUM:

- 1. REVIEW OF SYSTEM DOCUMENTATION.
- 2. HANDS-ON DEMONSTRATION OF ALL NORMAL MAINTENANCE PROCEDURES, NORMAL OPERATING MODES, AND ALL EMERGENCY SHUTDOWN AND START-UP PROCEDURES.
- 3. TRAINING COMPLETION REPORT.

1416.3.5: THE COMMISSIONING REPORT SHALL BE COMPLETED AND PROVIDED TO THE OWNER. THE COMMISSIONING REPORT SHALL INCLUDE:

- 1: COMPLETED FUNCTIONAL TEST FORMS INCLUDING MEASURABLE CRITERIA FOR TEST ACCEPTANCE.
- 2: ISSUES LOG OF CORRECTED AND UNCORRECTED DEFICIENCIES WITH THE ANTICIPATED DATE OF CORRECTION.
- DEFERRED TESTS, WHICH CANNOT BE PERFORMED AT THE TIME OF REPORT PREPARATION, WITH ANTICIPATED DATE OF COMPLETION.
- RECORD OR PROGRESS AND COMPLETION OF OPERATOR TRAINING.
- COMPLETED COMMISSIONING COMPLIANCE FORM.

1416.4: A COMMISSIONING COMPLIANCE CHECKLIST SHALL BE SUBMITTED TO THE BUILDING OFFICIAL UPON SUBSTANTIAL COMPLETION OF THE BUILDING. THE CHECKLIST SHALL BE COMPLETED AND SIGNED BY THE BUILDING OWNER OR OWNER'S REPRESENTATIVE. COMPLETION OF THE COMMISSIONING COMPLIANCE CHECKLIST IS DEEMED TO SATISFY THIS REQUIREMENT.

1432.2.1: AIR SYSTEMS SERVING MULTIPLE ZONES SHALL HAVE CONTROLS TO AUTOMATICALLY RESET SUPPLY AIR TEMPERATURE BY REPRESENTATIVE BUILDING LOADS OR OUTSIDE AIR TEMPERATURE.

1435: SYSTEMS WHICH PROVIDE HEATING AND COOLING TO THE SAME ZONE SIMULTANEOUSLY ARE PROHIBITED EXCEPT AS NOTED IN SECTION 1435.

1437: THREE PHASE ELECTRIC MOTORS NOT INCLUDED IN EQUIPMENT EFFICIENCY RATINGS (I.E., EXHAUST FANS, PUMPS, COOLING TOWER FANS) SHALL MEET MINIMUM EFFICIENCY RATINGS LISTED IN WSEC TABLE 14-4A & B.

GENERAL NOTES

PROTECT ALL DUCT OPENINGS OF FIRE RATED ASSEMBLIES PER I.B.C. 716.

INSTALL COMBINATION SMOKE FIRE DAMPERS AT ALL PENETRATIONS OF SHAFT ENCLOSURES PER I.B.C. SECTION 707.

INSTALL COMBINATION SMOKE FIRE DAMPERS AT ALL PENETRATIONS OF FIRE PARTITIONS. FIRE WALLS, FIRE BARRIERS AND SMOKE PARTITIONS PER I.B.C. CHAPTER 7.

ALL FIRE DAMPERS SHALL BE DYNAMIC TYPE, U.L. 555 RATED. ALL CEILING RADIATION DAMPERS SHALL BE U.L. 555C RATED. ALL COMBINATION SMOKE FIRE DAMPERS SHALL BE U.L. 555S RATED.

INSTALL SEISMIC BRACING FOR ALL DUCTWORK, EQUIPMENT AND PIPING PER I.B.C. REQUIREMENTS.

INSTALL ALL PIPING ON ROOM SIDE OF BUILDING INSULATION.

MECHANICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE, AND DO NOT NECESSARILY REFLECT EVERY REQUIRED OFF-SET, FITTING OR ACCESSORY.

COORDINATE INSTALLATION OF MECHANICAL SYSTEMS WITH BUILDING STRUCTURE AND ALL OTHER TRADES.

THE MECHANICAL CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO BEGINNING WORK IN ORDER TO OBSERVE EXISTING CONDITIONS. VERIFY EXACT SIZE, LOCATION AND CONDITION OF ALL EXISTING SYSTEMS, DUCTS, PIPES, UTILITIES AND BUILDING STRUCTURE.

VERIFY VOLTAGES AT THE SITE PRIOR TO ORDERING ANY EQUIPMENT.

ALL MECHANICAL EQUIPMENT LOCATED IN CEILING CAVITIES THAT REQUIRE ELECTRICAL CONNECTION SHALL HAVE AN 8-1/2"x11" LAMINATED SIGN PERMANENTLY MOUNTED ON THE ELECTRICAL ENCLOSURES THAT INDICATES: "THIS EQUIPMENT MUST HAVE A MINIMUM ACCESS OF 36" (LESS THAN 460V) AND 42" (460V AND ABOVE)". NO TRADE SHALL BLOCK THIS SPACE EVEN IF SHOWN ON THE DRAWINGS. INSTALL SIGN PRIOR TO INSTALLATION OF EQUIPMENT.

ALL MECHANICAL EQUIPMENT THAT REQUIRES ACCESS FOR COIL PULL, FILTER CHANGE, MOTOR CHANGE, COMPRESSOR CHANGE, LUBRICATION, SHEAVE AND BELT CHANGE, FAN CHANGE OUT, ETC. SHALL HAVE AN 8-1/2"x11" LAMINATED SIGN PERMANENTLY MOUNTED ON THE EQUIPMENT ACCESS PANELS THAT INDICATES "THIS EQUIPMENT MUST HAVE A MINIMUM ACCESS OF 36". NO TRADE SHALL BLOCK THIS SPACE.

(4-TYP)

5/8" UNISTRUT

(2-TYP)

-NUTS AND WASHERS BOTH SIDES

OF UNISTRUT (TYP)

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Reflect by Lamman Official 11"x17" SHEET SIZE QUICK BOLT AND COUPLING

P. GOTO 1 FEBRUARY 2012

3132 N.E. 133 ST eattle, Washington 98125-4423

PO Box 27073

eattle, Washington 98165-1473

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Fax (206) 368-6856

PSRHVMS924JT

AND LECTON TER LANGE TO BUILDING 4000 LON POINT WA 98033

IIS LAYOUT/DESIGN IS AN UNPUBLISHE

General Notes

PERMIT SET

Revision/Issue

GEND

P4700 L. LOCKRIDGEM 0.0 VARIES

SCOPE OF WORK:

1) RELOCATE EXISTING 1 TON HEAT PUMP OUT OF NEW SERVER AREA

2) DEMO EXISTING HYDRONIC PIPING TO RISER ON FLOOR.

3) RELOCATE (1) SUPPLY DIFFUSER AND (1) THERMOSTAT.

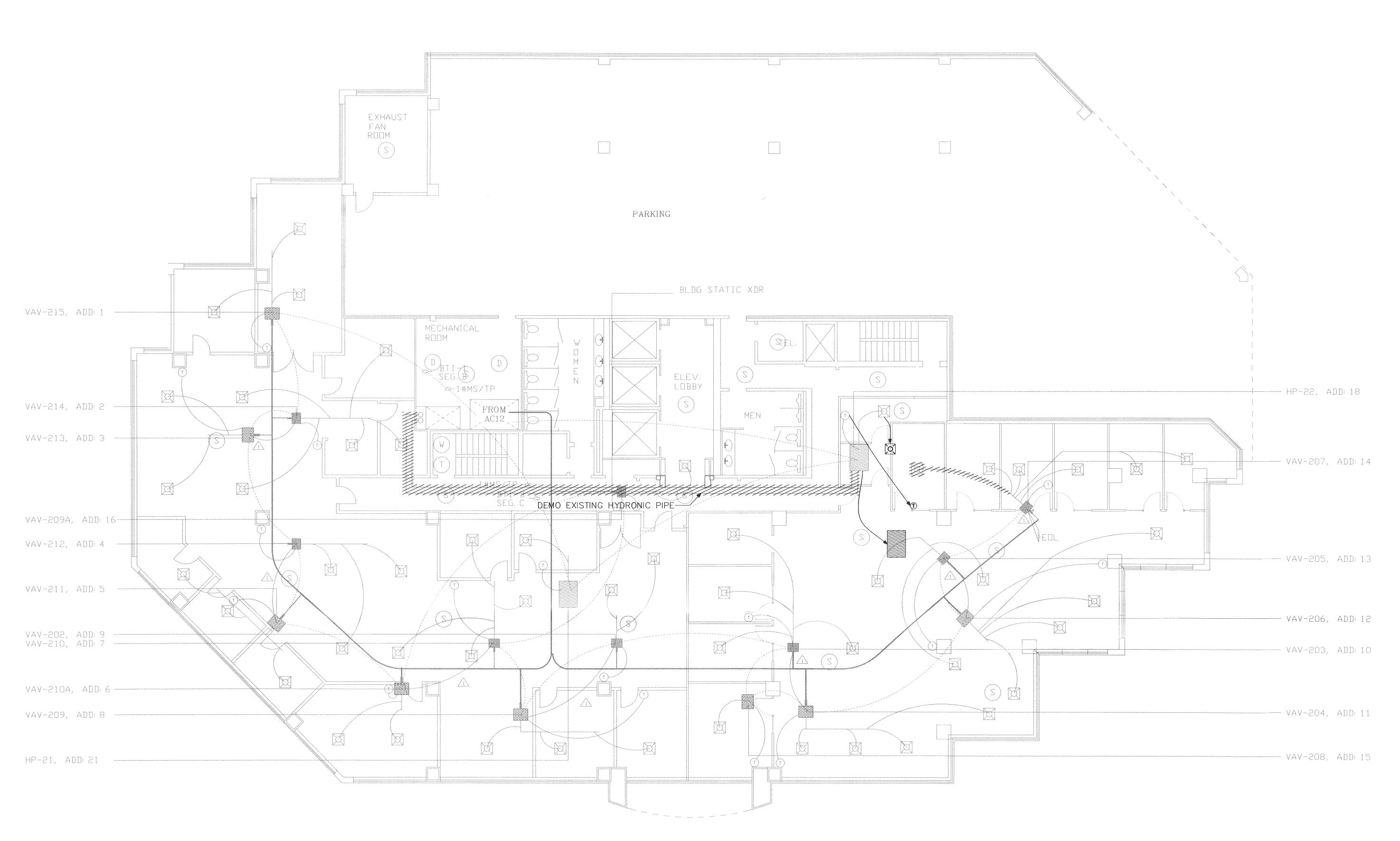
4) INSTALL (1) NEW 5 TON HEAT PUMP FOR SERVER ROOM.

5) INSTALL NEW HYDRONIC PIPING FOR THE (2) HEAT PUMPS SERVING THE SERVER ROOM.

6) INSTALL NEW STAND ALONE THERMOSTAT FOR NEW HEAT PUMP.

(4-TYP)

3/8"ø ALL THREAD-



CARILLON POINT BUILDING 4000 2ND FLOOR DEMO PLAN

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3132 N.E. 133 ST
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Fax (206) 368-6856
PSRHVMS924JT

2ND FLOOR DEMO PLAN
NEW DATA CENTER UNIT
FOR CARILLON POINT
CARILLON POINT
A100 CARILLON POINT
KIRKLAND, WA 98033

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General Notes

1. 11"x17" SHEET SIZE
NTS.

PERMIT SET

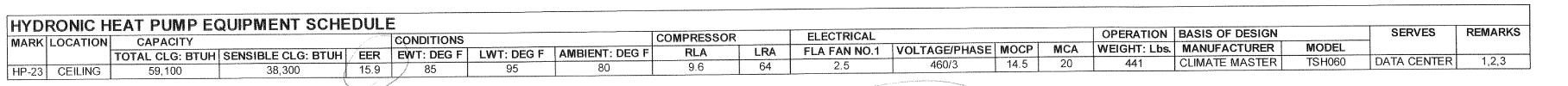
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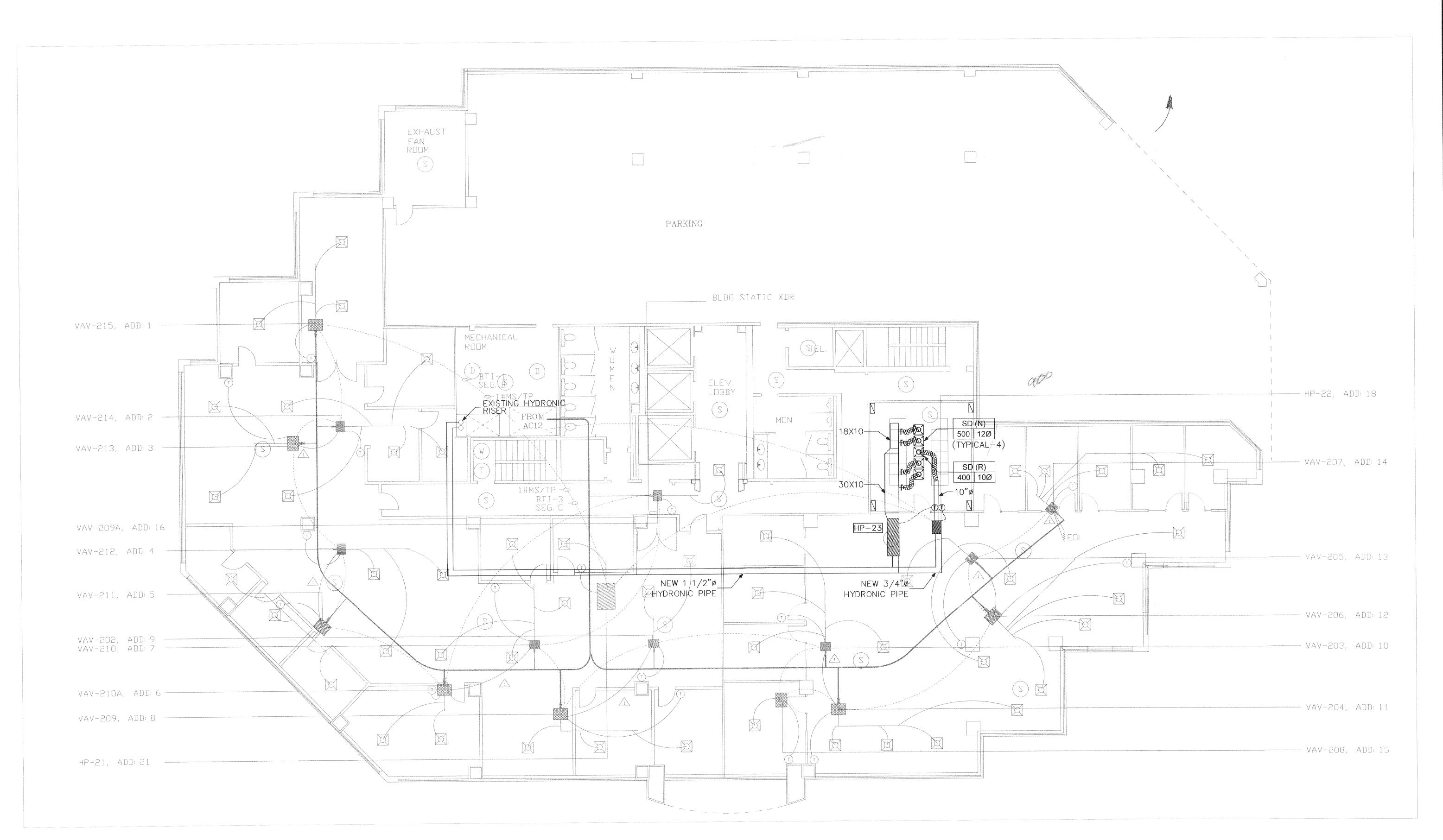
Lead Tech

Engineered By

Project P4700
Project Manager
L. LOCKRIDG EM 1.0
Scale
1/8"=1'0"



1) UNIT CONFORMS WITH WASHINGTON STATE ENERGY CODE 1433 EXCEPTION 9A. UNIT IS OVER MINIMUN CODE BY MORE THAN 15% AND SERVES A DEDICATED SERVER ROOM 2) 24 HOUR OPERATION 3) COOLING ONLY



CARILLON POINT BUILDING 4000 2ND FLOOR HVAC PLAN 1/8"=1'

3132 N.E. 133 ST Seattle, Washington 98125-4423 PO Box 27073 Seattle, Washington 98165-1473 (206) 367-2500 Fax (206) 368-6856 PSRHVMS924JT

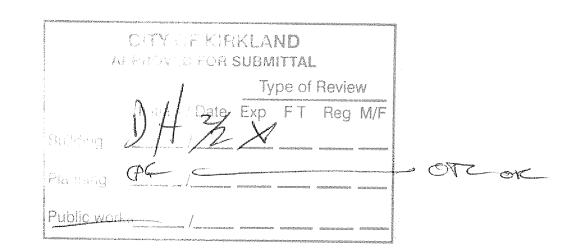
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CARILLON POINT, B
4100 CARILLO
KIRKLAND, W

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No.	Revisio	n/Issue	Date

P. GOTO 1 FEBRUARY 2012

P4700 L. LOCKRIDGEM 2.0



CITY OF KIRKLAND
BUILDING DEPARTMENT

PERMIT # MEC12-00019

ADDRESS 4000 CARILLON POINT

PLANS FOR ALTERATION - COMMERCIAL

PROJECT SERVICE N&W/COMMBL D4000FL2/MEC

OWNER CARILLON PROPERTIES

DATE SUBMITTED 02/02/2012

DATE APPROVED

APPROVED BY

PULL DEPT FILE COPY

AM TO 8PM MONTO!

AND WORK SUM: 10

PER KZC SEC 116.851

Ly willing by Flanning Chausi